

## PRODUCT APPLICATION NOTE

SN0103

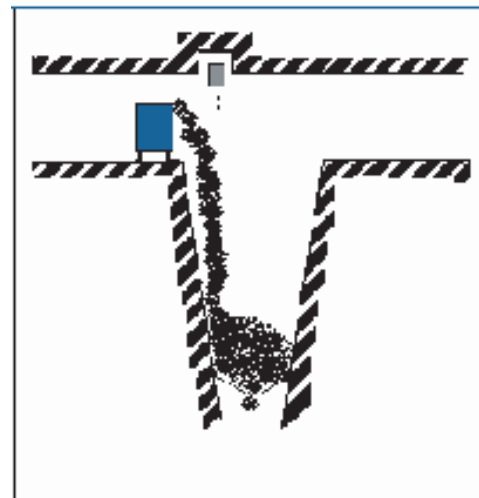
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|---------------------------------|---|
| <b>Industry:</b>                | Electric, Gas and Sanitary Services, Primary Metal Mining                     |
| <b>Application:</b>             | Underground ore pass level monitoring   |
| <b>Optech Equipment:</b>        | Sentinel 3100   |
| <b>Application Description:</b> | The customer required a sensor to monitor the level of ore in their ore pass. |

Optech installed its Sentinel 3100, a NEMA 4 laser level monitor, at a large mining company. The company wanted to monitor the level of ore in the ore pass to determine when full capacity is reached, in order to prevent an overflow that could damage the rail cars above, as well as to ensure at least 20% capacity to avoid damage to the chute. The Sentinel 3100 measured to the ore even with high background noise as well as moderate amounts of dust produced while dumping. The customer has been very satisfied with the Sentinel 3100, since it has helped improve their mining operation significantly. Other technologies could not meet this demanding application.

Another customer is using the Sentinel 3100 for underground monitoring of a surge bin through a grizzly.

### KEY ADVANTAGES OF LASER TECHNOLOGY IN LEVEL MEASUREMENT

- Measurements can be made in moderate amounts of dust
- Non-contact measurements
- Short setup time with no calibration required
- Measurements unaffected by temperature variations
- Level measurements unaffected by background noise



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